INDEX TO VOLUME XI.

* Denotes new variety, species or genus.

THE GENERAL SUBJECT.

Academy of Natural Sciences, Ent. Section 346, 380, 482, 608
Alaskan Insects . . 381, 416, 459
Alpine insects 319
American Entom. Society, 380, 483, 514, 610.
Bolivia, Collecting in 346
Bolter Collection 503
Buffalo Ent. Club 435
Chicago Entom. Society . . 447
Color photography 434
Doings of Societies 346, 380, 411, 446, 482, 512, 548, 578, 608, 642.
Economic Entomologists, Association of 370
Economic Entomology 336, 370, 390, 404, 436, 471, 546, 638.
Editorials 335, 369, 402, 434, 473, 504, 536, 571, 602, 633
Entomological Literature 342, 376, 407, 440, 475, 505, 537, 572, 603, 634.
Entomologists' Directory . . 427
Feldman Collecting Social . 347, 380, 411, 448, 483, 515, 548, 578, 611, 642.
Genera 602
Harris Club 341, 401, 446, 513, 579, 609, 643, 644.
Kissing bug 547
Malaria and mosquitos . . . 516
Massachusetts Agric. College, Entomology at 359
Mt. Washington, Alpine insects of 319
Newark Entom. Society 348, 411, 447, 512, 608, 644.
Notes and News 340, 481, 509, 547, 577, 641.
Obituary :
Bolter, A. . . . 450 (503)
Chatfield, A. F. . . . 451
Dakin, J. A. 451
Gilbert, Mrs. L. F. R. . 484
Harvey, F. L. 451
Hulst, G. D. 613
Meade, R. H 412
Ruscheweyh, G. . . . 580
Soltau, H. 450
Peach mite 471
Pin labels 341
Recollections of old collecting grounds 597
Rose-bug, Fish oil soap for . 546
Russian Economic Entom. . 404
Silver Lake, Utah 363
Strange habits, Some . . . 600
Students' Entom. Association. 447
Sugar-beet pest 390
Trap lantern 579
Watkins, W. 577

ARACHNIDA.

Amblyomma hebræum . . . 336
Bont tick, Life history of . . 336

COLEOPTERA.

Abnormalities 619
Alaska, C. of 459
Allorhina nitida . . . 437, 609
Amphionycha flammata . . . 621
Anthicidæ 511
Apion puritana 411
Arizona, C. of Phoenix . . . 561
Bryaxus abdominalis 548
Callida viridipennis 621
Calosoma willcoxi 548
Cedius ziegleri 579
Colapsis brunnea 437

Colorado, C. of 597
Copturodes cockerelli . . . 503
Crioceris asparagi 639
C. 12-punctata 436
Cryptorhynchus fuscatus . . 380
Cychrus viduus 611
Cyclocephala immaculata . . 620
Dichelonycha fuscula . (548) 608
Dorytomus brevisetosus . . . 601
Elater militaris 348
Eumicrus motschulskii . . . 348
Geopinus incrassatus 610
Halticus uhleri 436
Hoplosia nubila 620
Ichalia costata 380
Illinois, C. of 468
Length of life of C. 633
Megalonycha fuscula . . 548 (608)
Metrius sericeus* 389
Microchara explanata 610
Monstrosities 619
Mycetina perpulchra 380
Neladius tenuis 643
New Jersey, C. of . 380, 411, 484, 515, 548, 611, 642.
Northfield, Mass., Collecting at 392
Oberea bimaculata 437
Panagæus crucigerus 515
Pennsylvania, C. of . 348, 380, 449, 499, 548, 579, 610, 612, 619, 643.
Phyllobrotica decurrata . . . 642
Platynus spp. 499
Saperda vestita 621
Sitodrepa panicea 375
Soronia ulkei 411
Stenomimus pallidus 509
Tiger hunt in far west 581
Utah, C. of 482, 581

COLLEMBOLA.

Achorutes tigrina* 552
C., New Maine 549
Entomobrya aglis* 549
Smynthurus brunneus* . . . 550

DIPTERA.

Anopheles 516
Bee fly four years a larva . . 510
Blepharocera capitata 305
Cecidomyia destructor . . . 438
C. oxycoccana 324
Chætopsis apicalis* 326
Chrysomyza demandata . . . 609
Daulopogon terricola* . . . 326
Diplosis pini-radiatæ* 491
Eutanypus borealis 439
Goniops 531
Hesperodes* 429
H. johnsoni* 429
Hypocharassus 423
Mosquitos and malaria . . . 516
Neaspilota achilleæ* 328
Pangonia chrysocoma . 392, 531
Pseudatrichia griseola* . . . 501
P. unicolor* 500
Rivellia brevifasciata* . . . 326
Sargus cæruleifrons* 325
Sepsisoma* 327
S. flavescens* 327
Synonyms 531
Teucholabis complexa . . . 324
Therioplectes astutus 516
T. politus* 325
Traginops* 429
T. irrorata* 430

HEMIPTERA.

Aphis mali 448
Aspidiotus diffinis 425
Cicada septendecim 638
Clastoptera 463
C. bimaculata* 464
Diaspis piricola 590
Eriococcus spp. 594
E. quercus toumeyi* 594
European pear scale 590
Eutettix magnus* 395
Pemphigus betæ* 391
Platymetopius hyalinus* . . . 501

HYMENOPTERA.

Anthophora montana, its parasites 510
Asobara antipoda* 625
Bathymetis antipoda* 624

Brachista pallida* 616
Centrobia odonatæ* 616
Coelioxys 8-dentata and host . 553
Crabro angelicus* 358
C. foxii* 356
C. of Washington 353
Doryctomorpha* 629
D. antipoda* 630
Eulophus albitarsis* 623
Formica exsectoides 579
Hyperteles polynemæ* . . . 615
Macrotera 510
Megacilissa 510
Mellinus bimaculatus 346
Monedula carolina 347
Mutilla, Extra-American . . . 400
Parasitic H. 615, 623
Polynema needhami* 617
Schauinslandia* 627
S. alfkenii* 628
S. femorata* 627
S. pallidipes* 628
Tetrastichus polynemæ* . . 616
Washington, H. of 353

LEPIDOPTERA.

Achalaurus cellus 439
Acontia delecta 513
Actias luna 609
Ægiale streckeri 495
Alaskan L. 382, 416
Anartia melanopa 380
Anthocaris genutia 465
Arachnis dilecta 600
Archonias lyceas 533
Argynnis nitocris coerulescens* 332, 449, 483.
A. n. nigrocœrulea* 622
Azelina peplaria 583
Brenthis pales alaskensis* . . 383
B. youngi* 383
Brephos infans 514
Bungalotis midas 600
Callidryas agarithe 618
Catocala badia 368
C. innubens scintillans . . . 445
C. titania* 472
Catocalæ of Missouri . 433, 472
Cecropia 579, 631
Ceratomia catalpæ . . 608, 611
Citheronia regalis 642
C. sepulcralis 446
Cocytius cluentius 334
Cœnonympha kodiak yukonensis* 386
Colias philodice . 347, 449, 642
C. eurytheme 347, 449
Diurnals, Notes on N. A. . . 328
Double cocoons . . . 401, 446
Eacles imperialis 641
Enodia portlandia 609
Erebia sofia alaskensis* . . . 387
E. youngi* 388
Erebus odora 608, 610
Eucordylea* 349
E. atripictella* 350
Feralia jocosa 368
Gastropacha americana . . . 514
Geometrina, N. Am. . . 527, 554
Hemaris brucei 380
H. spp. 498, 547, 584
Hepialus argenteomaculatus . 610
Hesperidæ, N. Am. 413, 578, 579
House-moth injuring specimens 445
Hymenitis spp. 600
Inflated cocoons 446, 513, 515, 580, 631.
Lycæna sonorensis 481
L. yukona* 416
Melipodes jucunda 641
Melitæa phæton superba . . 401
Metzneria lappella 644
Mimicry in L. 644
Mississippi, L. of 512
Missouri, L. of 433, 472
Nealyda* 350
N. bifidella* 351
Neophasia terlootii 535
New Jersey, L. of . 348, 513, 548, 608-9, 642, 643.
Noctuidæ, North Am. species wrongly listed as 509

Œdomasia badia . . . 348, 368
Œneis jutta alaskensis* . . . 389
Pamphila attalus 642
Papilio ajax 643
P. asterias on Cosmos . . . 577
P. electryon 428
P. philenor 580, 642
P. turnus aber. fletcheri* . . 482
Pericopis salvini 600
Phægoptera ochraceator . . 600
Protoparce rustica 485
Pseudochelaria walsinghami* . 352
Pyralidina, N. Am. . . 527, 554
Pyrameis caryæ 412
Rearing larvæ, Hints for . . 461
Sibine fusca 517
Skinner's catalogue, Additions and corrections to 328
Slug-caterpillar, Life history of a S. Am. 517
Smith's list of L. 396
Sphinx drupiferarum 581
S. luscitiosa 580
Synchlœ lacinia 503
Synonymy, Headlong plunge into 533
Thecla mellinus 578
Tinea fuscipunctella 503
Tineid larva feeding on dead Cecropia 502, 516
Tineina, New N. Am. . . . 349
Tortricidea fiskeana* . . . 333
Tropæa truncatipennis . . . 403
Utah, L. of 363
Vanessa antiopa 514

NEUROPTERA.

Alaskan Odonata 382
Arkansas Odonata 621
Atropidæ 431
Calopteryx angustipennis . . 464
Dragonflies caught by tendrils of vines 439
D., Kingbirds eating 340
Dragonfly-eggs, Parasites from 615
Enallagma anna* 455
Gomphus crassus 545
G. externus 545
Indiana Odonata 640
Mecistogaster 601
Megaloprepus 601
Myrmeleon texanum* . . . 596
Psocids at light 601
Psocinella* 431
P. slossonæ* 432
Tachopteryx thoreyi 398
Troctes bicolor* 559
T. niger* 560
Wyoming dragonflies . . . 453

ORTHOPTERA.

Alaskan O 382
Earwigs on gallinule 516
Gryllotalpa borealis 642
Podisma variegata 630

AUTHORS.

Adams, C. C. 621
Aldrich, J. M. 531
Ashmead, W. H. 615, 623
Baker, C. F. 463
Banks, N. 431, 559, 596, 601
Barnes, W. 328
Barrett, O. W. . . 403, 428, 600
Bowditch, F. C. . . . 393, 512
Bradley, J. C. 448
Broadwell, W. H. . 411, 447, 513, 608, 644.
Brown, C. E. 439
Browning, G. W. 581
Calvert, P. P. . 340, 342, 376, 407, 440, 452, 475, 505, 537, 546, 572, 603, 634, 641.
Caudell, A. N. 583
Cockerell, T. D. A. 439, 503, 510, 578, 594, 601, 622.
Cockerell, W. P. 622
Coquillett, D. W. . . . 429, 500
Davidson, A. 511
Dietz, W. G. 349
Doane, R. W. 390
Dodge, G. M. 433, 472

Dury, C. 510
Dyar, H. G. . . 333, 517, 580, 618
Ehrmann, G. A. . . . 499, 619
Fall, H. C. 459
Fernald, C. H. 359
Field, W. L. W. 401, 446, 447, 513, 514, 580, 610, 643, 644.
Forket, C. 512
Foster, F. H. 461
Fox, W. J. 348, 380, 400, 412, 449, 484, 548, 553, 579, 612, 643.
Girault, A. A. 439
Goodhue, C. F. 368
Griffith, H. G. 561
Harvey, F. L. 549
Herr, C. W. 481
Hine, J. S. 392
Holland, W. J. . . 332, 381, 416
Hulst, G. D. 527, 554
Johnson, C. W. 323
Johnson, W. G. 471
Kellogg, V. L. 305, 490
Kemp, S. T. 368, 482
Kincaid, T. 353
Kwiat, A. 447
Lounsbury, C. P. 340
Mally, C. W. 546
Marlatt, C. L. 425, 590
Mills, H. 489
Moore, J. P. 340
Newcomb, H. H. 396
Osborn, H. 395, 501
Oslar, E. J. 495
Read, H. Y. 412
Rehn, J. A. G. 630
Rivers, J. J. 389
Satterthwaite, A. F. 502
Skinner, H. 334, 335, 347, 369, 380, 402, 413, 434, 445, 473, 482, 483, 502, 504, 515, 533, 536, 545, 571, 602, 608, 609, 611, 632.
Slosson, A. T. 319
Smith, J. B. . . . 375, 509, 615
Smyth, E. A., Jr. . 465, 485, 498 (547), 584.
Snow, W. A. 489
Snyder, A. J. 363
Soule, C. G. 631
Troschel, A. 334
Webster, B. F. 436
Webster, F. M. . 375, 577, 640
Weidt, A. J. 348
Weith, R. J. 641
Wheeler, W. M. 423
Wickham, H. F. . . . 450, 597
Willcox, E. V. 404
Williamson, E. B. 398, 453, 464
Wolcott, A. B. 468